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## Amendments to the Claims

1. (Currently amended) A turbine engine comprising:  
a plurality of disks, each disk extending radially from an inner aperture to an outer periphery;  
a plurality of spacers, each spacer between an adjacent pair of said disks; and  
a central shaft freely passing through said inner apertures and carrying the plurality of disks and the plurality of spacers to rotate about an axis with the plurality of disks and the plurality of spacers as a unit,  
wherein:  
said spacers include one or more first spacers having a longitudinal cross-section, said longitudinal cross-section having a first portion being essentially outwardly concave in a static condition.
2. (Original) The engine of claim 1 wherein:  
said first portion has a longitudinal span of at least 2.0cm.
3. (Original) The engine of claim 1 wherein:  
at least one of said first spacers is essentially unitarily formed with at least a first disk of said adjacent pair of said disks.
4. (Original) The engine of claim 1 wherein:  
at least one of said first spacers has an end portion essentially interference fit within a portion of a first disk of said adjacent pair of said disks.
5. (Original) The engine of claim 1 wherein:  
there are no off-center tie members holding the plurality of disks and the plurality of spacers under compression.
6. (Original) The engine of claim 1 wherein:

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said longitudinal cross-section first portion is essentially outwardly concave in a running condition of a speed of at least 5000rpm.

7. (Original) The engine of claim 1 wherein:  
the shaft is a high speed shaft; and  
the plurality of disks are high speed compressor section disks.
8. (Original) A gas turbine engine disk spacer comprising:  
a first end portion either integrally formed with a first disk or having a surface for engaging the first disk;  
a second end portion either integrally formed with a second disk or having a surface for engaging the second disk; and  
an essentially annular intermediate portion having a concave outward longitudinal sectional median, said longitudinal sectional median measured without reference to any seal teeth, the spacer lacking a radially inwardly extending structural bore.
9. (Original) The spacer of claim 8 wherein:  
said intermediate portion has a longitudinal span of at least 2.0cm.
10. (Original) The spacer of claim 8 wherein:  
the first and second end portions and the intermediate portion are unitarily-formed of a metallic material; and  
the spacer further includes at least one radially outwardly extending seal tooth.
11. (Original) The spacer of claim 8 in combination with said first and second disks and wherein:  
the spacer first end portion is unitarily formed with the first disk; and  
the spacer second end portion is interference fit within a collar portion of said second disk.

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12. (Currently amended) A turbine engine comprising:  
a central shaft; and  
a rotor carried by the central shaft to rotate with the shaft as a unit and comprising:  
a plurality of disks, each disk extending radially from an inner aperture to an outer periphery, the central shaft freely extending through the inner aperture of each disk; and  
means coupling the plurality of disks, the means providing an increase in a longitudinal compression force across the rotor from a first force at a static condition to a second force at a running condition.
13. (Original) The engine of claim 12 wherein:  
said running condition is characterized by a speed in excess of 5000rpm; and  
said compression force essentially increases with speed continuously between said first force and said second force.
14. (Original) The engine of claim 12 wherein:  
said first force is 50-200kN.
15. (Original) The engine of claim 12 wherein:  
said means comprises an annular spacer portion having a longitudinal cross-section that:  
in said static condition is outwardly concave with a characteristic concavity having a first value; and  
in said running condition is outwardly concave with said characteristic concavity having a second value less than the first value.
16. (Original) The engine of claim 15 wherein:  
the means includes at least three such annular spacer portions.
17. (Original) The engine of claim 12 wherein:  
there are no off-center tie members holding the plurality of disks and the plurality of spacers under compression.

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18-21. (Canceled)

22. (Previously presented) The engine of claim 1 wherein:

there is a precompression force across the plurality of spacers and a pretension force across an associated portion of the central shaft.

23. (Previously presented) The engine of claim 1 wherein:

there is a precompression force across the plurality of spacers and an equal magnitude pretension force across an associated portion of the central shaft.

24. (Previously presented) The engine of claim 12 wherein:

in said static condition, there is a pretension force on the central shaft equal in magnitude to the first force.